

STN-Structure Search
8/28/07

10/510,579

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L8 ANSWER 1 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2007:473169 CAPLUS

DOCUMENT NUMBER: 147:72438

TITLE: Self-assembly of semifluorinated minidendrons attached to electron-acceptor groups into pyramidal columns

AUTHOR(S): Percec, Virgil; Aqad, Emad; Peterca, Mihai; Imam, Mohammad R.; Glodde, Martin; Bera, Tusha K.; Miura, Yoshiko; Balagurusamy, Venkatachalamathy S. K.; Ewbank, Paul C.; Wuerthner, Frank; Heiney, Paul A.

CORPORATE SOURCE: Roy & Diana Vagelos Laboratories, Department of Chemistry, University of Pennsylvania, Philadelphia, PA, 19104-6323, USA

SOURCE: Chemistry--A European Journal (2007), 13(12), 3330-3345

CODEN: CEUJED; ISSN: 0947-6539

PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The synthesis and self-assembly of twelve semifluorinated first-generation dendrons or minidendrons attached to electron-acceptor (n-type) groups generated from various combinations of eight acceptors and three dendrons are reported. Dendrons attached to small electron-acceptor mols. mediate their self-assembly into π -stacks located in the center of a supramol. helical pyramidal column with the long axis of the acceptor perpendicular to the long axis of the column. Dendrons attached to large electron-acceptor mols., such as perylene bisimide, mediate the assembly of their acceptors in an unprecedented arrangement of π -stacks that have the long axis of the acceptors parallel to the long axis of the supramol. pyramidal column. All supra-mol. columns self-organize into various periodic columnar arrays that exhibit liquid-crystalline phases, crystalline

phases, or a liquid-crystalline phase with enhanced intracolumnar order. The present study demonstrates the simplicity and the versatility of the concept of assembly of n-type electroactive groups mediated by semifluorinated dendrons and assesses the scope and limitations of this supramol. strategy.

IT 941677-47-0P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)

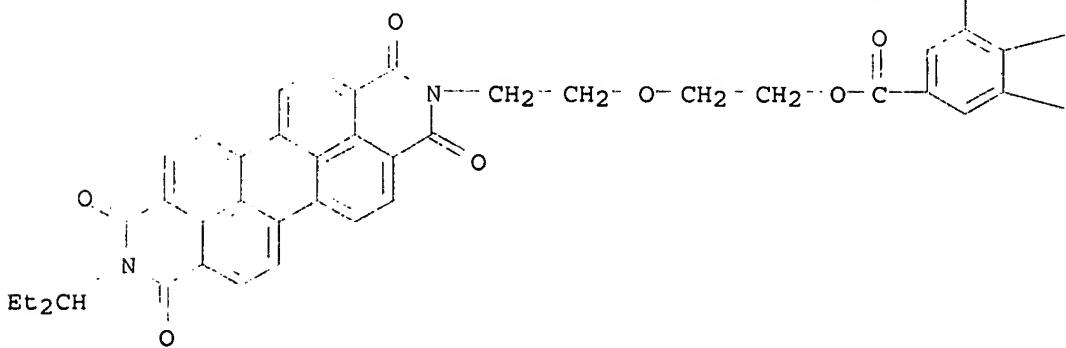
(self-assembly of semifluorinated minidendrons attached to electron-acceptor groups into pyramidal columns)

RN 941677-47-0 CAPLUS

CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A

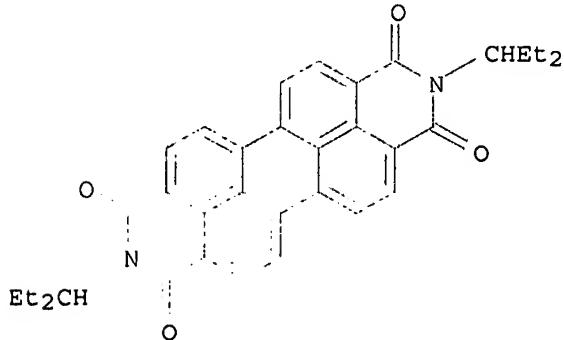
$F_3C - (CF_2)_7 - (CH_2)_4 - O$



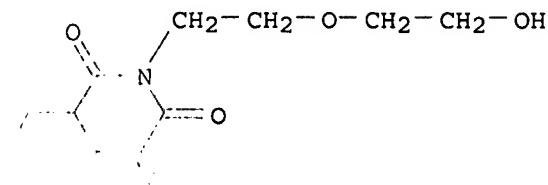
O (CH₂)₄ (CF₂)₇ CF₃

O (CH₂)₄ (CF₂)₇ CF₃

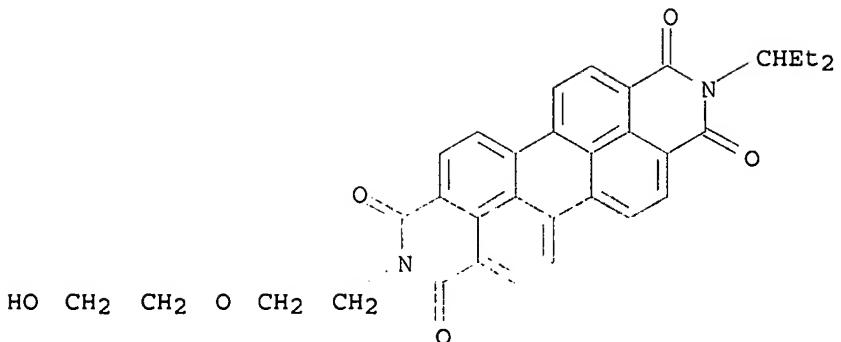
IT 110590-81-3P 651768-35-3P 941677-46-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP
 (Preparation); RACT (Reactant or reagent)
 (self-assembly of semifluorinated minidendrons attached to
 electron-acceptor groups into pyramidal columns)
 RN 110590-81-3 CAPLUS
 CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
 2,9-bis(1-ethylpropyl)- (CA INDEX NAME)



RN 651768-35-3 CAPLUS
 CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-[2-(2-hydroxyethoxy)ethyl]- (CA
 INDEX NAME)



RN 941677-46-9 CAPLUS
 CN INDEX NAME NOT YET ASSIGNED

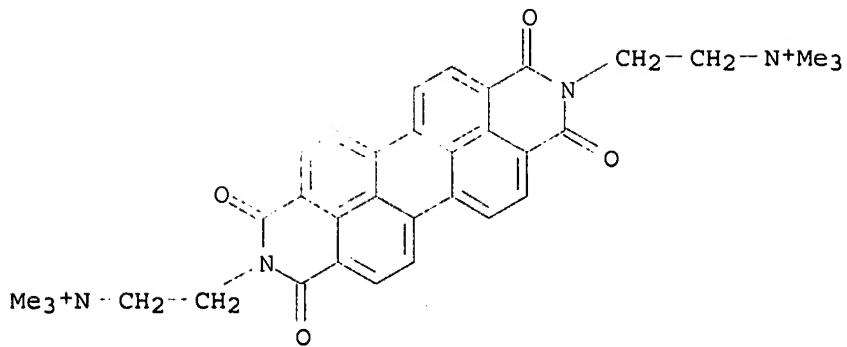


REFERENCE COUNT: 86 THERE ARE 86 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2006:1245526 CAPLUS
 DOCUMENT NUMBER: 146:155297
 TITLE: Tri-, tetra- and heptacyclic perylene analogues as new potential antineoplastic agents based on DNA telomerase inhibition
 AUTHOR(S): Sissi, Claudia; Lucatello, Lorena; Paul Krapcho, A.; Maloney, David J.; Boxer, Matthew B.; Camarasa, Maria V.; Pezzoni, Gabriella; Menta, Ernesto; Palumbo, Manlio
 CORPORATE SOURCE: Department of Pharmaceutical Sciences, University of Padova, Padua, 5-35131, Italy
 SOURCE: Bioorganic & Medicinal Chemistry (2007), 15(1), 555-562
 CODEN: BMECEP; ISSN: 0968-0896
 PUBLISHER: Elsevier Ltd.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB A recent approach in anticancer chemotherapy envisages telomerase as a potentially useful target. An attractive strategy deals with the development of compds. able to stabilize telomeric DNA in the G-quadruplex folded structure and, among them, a prominent position is found in the perylenes. With the aim to further investigate the role of drug structure, in view of possible pharmaceutical applications, the authors synthesized a series of compds. related to PIPER, a well-known perylene-based telomerase inhibitor. The authors modified the number of condensed aromatic rings and introduced different side chains to modulate drug protonation state and extent of self-aggregation. Effective telomerase inhibition was induced by heptacyclic analogs only, some showing a remarkably wide selectivity index with reference to inhibition of Taq polymerase. G-quadruplex stabilization was monitored by CD and melting expts. Cell cytotoxicity measurements indicated a poor short-term cell killing ability for the best G-quartet binders. Besides the presence of a planar seven-condensed ring system, the introduction of a cyclic amine in the side chains critically affects the selectivity window.
 IT 154355-16-5P 236735-00-5P 236735-02-7P
 920490-26-2P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation);
 USES (Uses)
 (tri-, tetra- and heptacyclic perylene analogs as new potential antineoplastic agents based on DNA telomerase inhibition)
 RN 154355-16-5 CAPLUS
 CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-2,9-diethanaminium, 1,3,8,10-tetrahydro-N2,N2,N2,N9,N9,N9-hexamethyl-1,3,8,10-tetraoxo-,

10/510,579

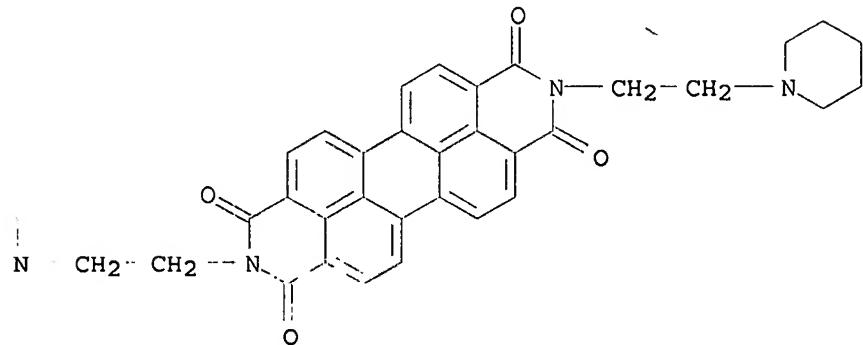
iodide (1:2) (CA INDEX NAME)



● 2 I -

RN 236735-00-5 CAPLUS

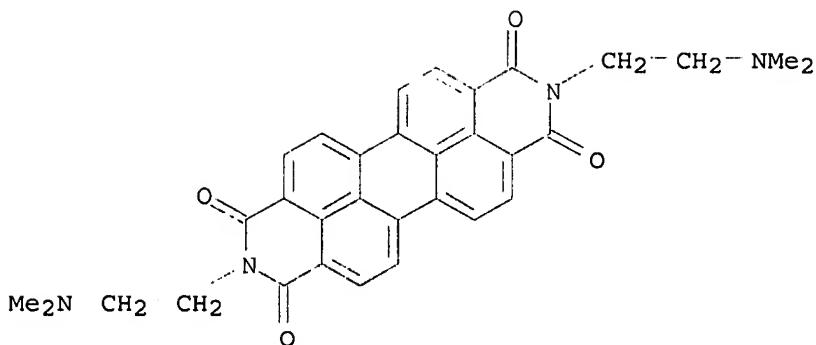
CN 2,9-Diazacyclooctane-1,3,8,10-tetron, 2,9-bis[2-(1-piperidinyl)ethyl]-, hydrochloride (1:2) (CA INDEX NAME)



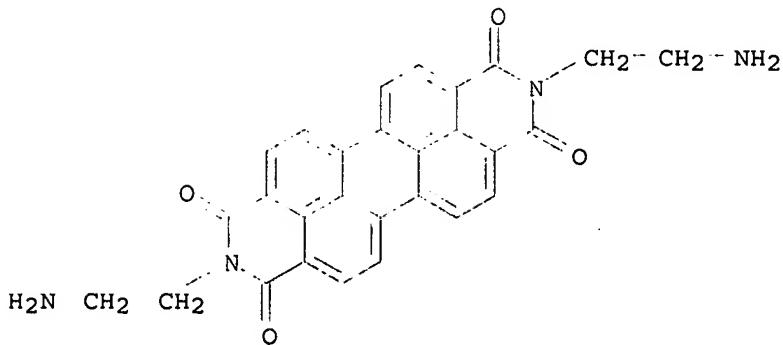
• 2 HCl

RN 236735-02-7 CAPLUS

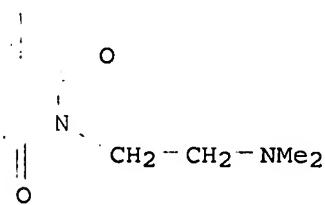
CN 2,9-Diazacyclononadecane-1,3,8,10-tetrone, 2,9-bis [2-(dimethylamino)ethyl] -,
, hydrochloride (1:2) (CA INDEX NAME)



RN 920490-26-2 CAPLUS
CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
2,9-bis(2-aminoethyl)-, hydrochloride (1:2) (9CI) (CA INDEX NAME)

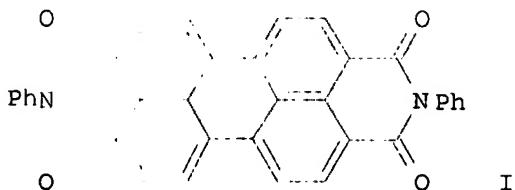


IT 79070-66-9P, N-[2-[Dimethylamino]ethyl]-1,8-naphthalimide
RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT (Reactant or reagent)
(tri-, tetra- and heptacyclic perylene analogs as new potential
antineoplastic agents based on DNA telomerase inhibition)
RN 79070-66-9 CAPLUS
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-[2-(dimethylamino)ethyl]- (CA
INDEX NAME)

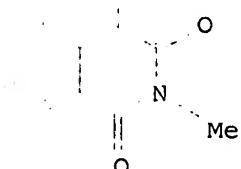


REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 2001:20366 CAPLUS
 DOCUMENT NUMBER: 134:237379
 TITLE: Perylene derivatives formation in reaction of 3-bromobenzanthrone and 4-bromonaphthalic acid derivatives with a reduction system
 NiCl₂-2',2'bipyridyl (or 1,10-phenanthroline)-Zn
 AUTHOR(S): Adonin, N. Yu.; Ryabinin, V. A.; Starichenko, V. F.
 CORPORATE SOURCE: Vorozhtsov Novosibirsk Institute of Organic Chemistry, Siberian Division, Russian Academy of Sciences, Novosibirsk, 630090, Russia
 SOURCE: Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi Khimii) (2000), 36(6), 861-865
 CODEN: RJOCEQ; ISSN: 1070-4280
 PUBLISHER: MAIK Nauka/Interperiodica Publishing
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 OTHER SOURCE(S): CASREACT 134:237379
 GI



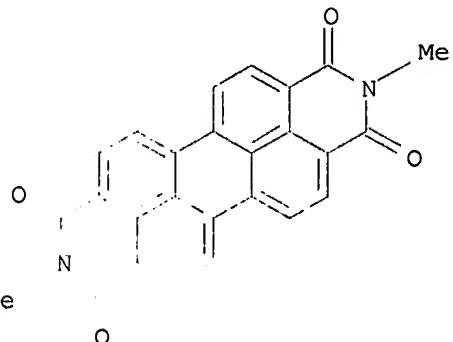
AB The reaction of 3-bromobenzanthrone and 4-bromonaphthalic acid derivs. with a reduction system NiCl₂-2',2'bipyridyl (or 1,10-phenanthroline)-Zn gives rise to compds. containing perylene fragment, e.g. I. Under similar conditions was established a possibility to transform substituted 1,1'-binaphthyls into the corresponding perylene derivs.
 IT 2382-08-3, 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-methyl-
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (perylene derivs. formation in reaction of 3-bromobenzanthrone and 4-bromonaphthalic acid derivs. with a reduction system nickel chloride-2',2'bipyridyl (or 1,10-phenanthroline)-zinc)
 RN 2382-08-3 CAPLUS
 CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-methyl- (CA INDEX NAME)



IT 5521-31-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (perylene derivs. formation in reaction of 3-bromobenzanthrone and 4-bromonaphthalic acid derivs. with a reduction system nickel

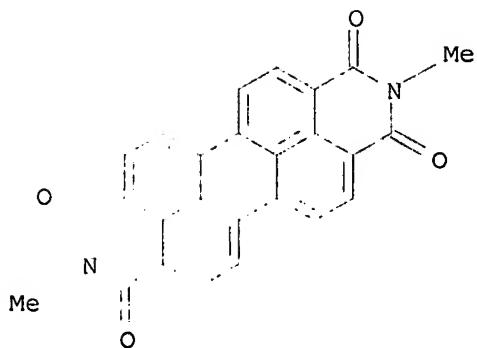
10/510,579

chloride-2,2'bipyridyl (or 1,10-phenanthroline)-zinc)
RN 5521-31-3 CAPLUS
CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
2,9-dimethyl- (CA INDEX NAME)



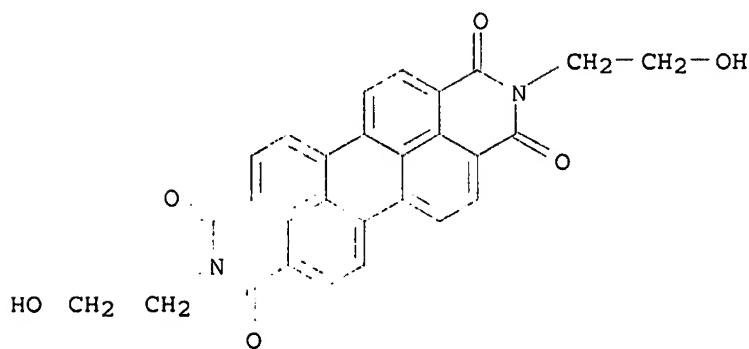
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:875960 CAPLUS
DOCUMENT NUMBER: 134:164454
TITLE: A "green" route to perylene dyes: direct coupling reactions of 1,8-naphthalimide and related compounds under mild conditions Using a "new" base complex reagent, t-BuOK/DBN
AUTHOR(S): Sakamoto, Takaaki; Pac, Chyongjin
CORPORATE SOURCE: Kawamura Institute of Chemical Research, Sakura Chiba, 285-0078, Japan
SOURCE: Journal of Organic Chemistry (2001), 66(1), 94-98
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 134:164454
AB The direct coupling (cyclodimerization) reactions of 1,8-naphthalimide compds. efficiently occurred at 130 or 170°C without the intervention of the leuco form dyes in the presence of base complex reagent, tert-BuOK/1,5-diazabicyclo[4.3.0]non-5-ene (DBN), to give the corresponding perylene dyes in good yields with >95% purities. A possible mechanistic speculation for these oxidative coupling reactions is briefly discussed.
IT 5521-31-3P 26872-64-0P 52000-81-4P
58935-22-1P 73528-89-9P 78151-58-3P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(dye; oxidative coupling of naphthalimides to perylenedicarboximide dyes)
RN 5521-31-3 CAPLUS
CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
2,9-dimethyl- (CA INDEX NAME)



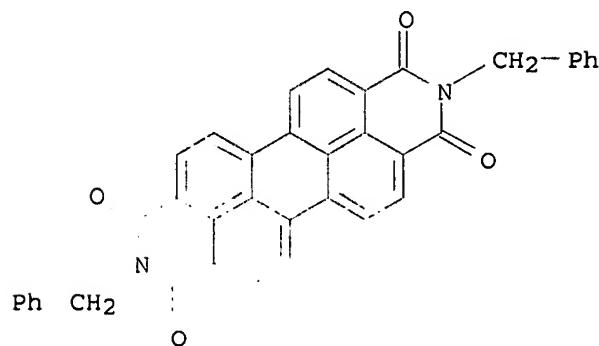
RN 26872-64-0 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
2,9-bis(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



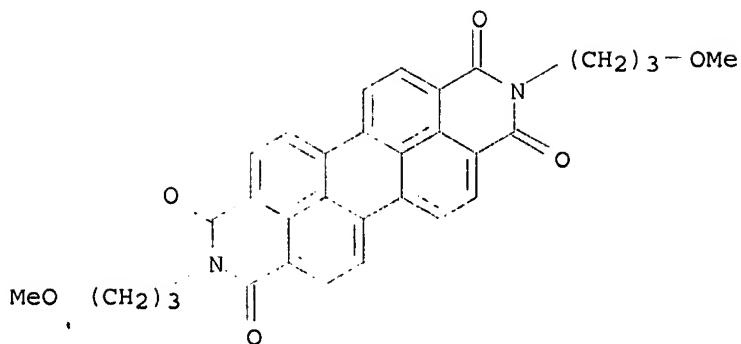
RN 52000-81-4 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
2,9-bis(phenylmethyl)- (9CI) (CA INDEX NAME)

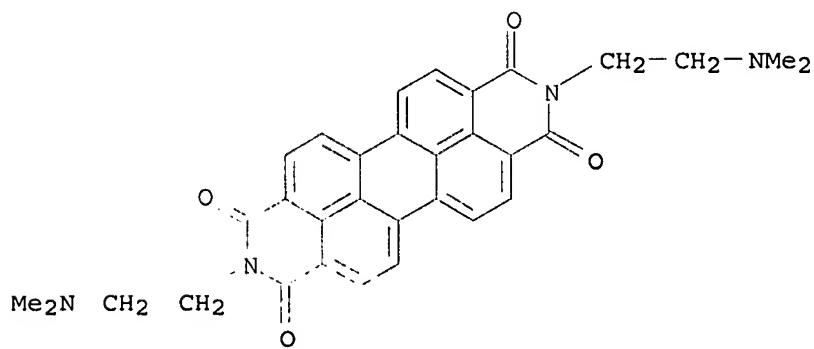


RN 58935-22-1 CAPLUS

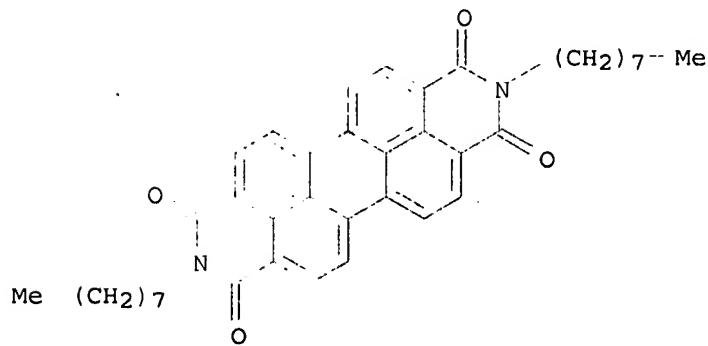
CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
2,9-bis(3-methoxypropyl)- (9CI) (CA INDEX NAME)



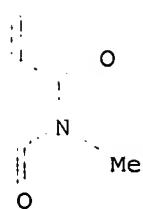
RN 73528-89-9 CAPLUS
 CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
 2,9-bis[2-(dimethylamino)ethyl]- (9CI) (CA INDEX NAME)



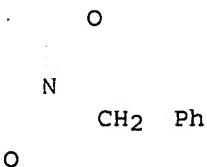
RN 78151-58-3 CAPLUS
 CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
 2,9-diethyl- (CA INDEX NAME)



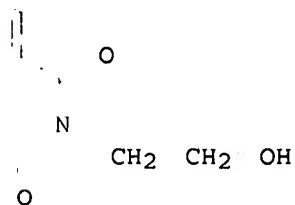
IT 2382-08-3, N-Methyl-1,8-naphthalimide 2896-24-4,
 N-Benzyl-1,8-naphthalimide 5450-40-8, N-(2-Hydroxyethyl)-1,8-
 naphthalimide 39061-46-6, N-Octyl-1,8-naphthalimide
 60100-03-0, N-(3-Methoxypropyl)-1,8-naphthalimide
 79070-66-9, N-[2-(Dimethylamino)ethyl]-1,8-naphthalimide
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (starting material; oxidative coupling of naphthalimides to
 perylenedicarboximide dyes)
 RN 2382-08-3 CAPLUS
 CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-methyl- (CA INDEX NAME)



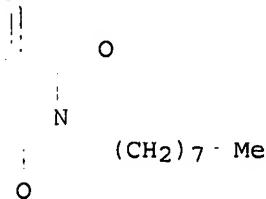
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CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-(phenylmethyl)- (CA INDEX NAME)



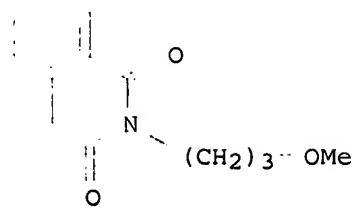
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CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-(2-hydroxyethyl)- (CA INDEX NAME)



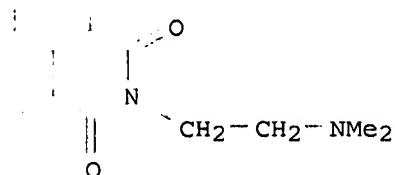
RN 39061-46-6 CAPLUS
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-octyl- (9CI) (CA INDEX NAME)



RN 60100-03-0 CAPLUS
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-(3-methoxypropyl)- (CA INDEX NAME)



RN 79070-66-9 CAPLUS
 CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-[2-(dimethylamino)ethyl] - (CA
 INDEX NAME)



REFERENCE COUNT: 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

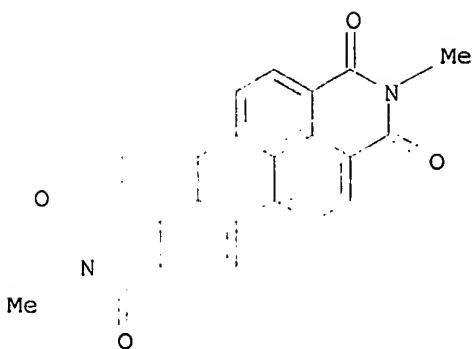
L8 ANSWER 5 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1999:78464 CAPLUS
 DOCUMENT NUMBER: 130:153479
 TITLE: Reagents for condensation reaction of condensed polycyclic aromatic compounds
 INVENTOR(S): Sakamoto, Takaaki; Yonehara, Yoshitomo; Boku, Shoshin
 PATENT ASSIGNEE(S): Kawamura Institute of Chemical Research, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 13 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11029499	A	19990202	JP 1997-183343	19970709
PRIORITY APPLN. INFO.:			JP 1997-183343	19970709

OTHER SOURCE(S): CASREACT 130:153479
 AB Title reagents contain alkali metal alkoxides and organic bases having an azabicyclo ring. T-BuOK and 1,5-diazabicyclo[4.3.0]-5-nonene were heated in diglyme at 170° for 1 h and treated with 1,8-naphthalimide at 170° for 8 h to give 99% perylene-3,4,9,10-tetracarboxylic acid diimide.

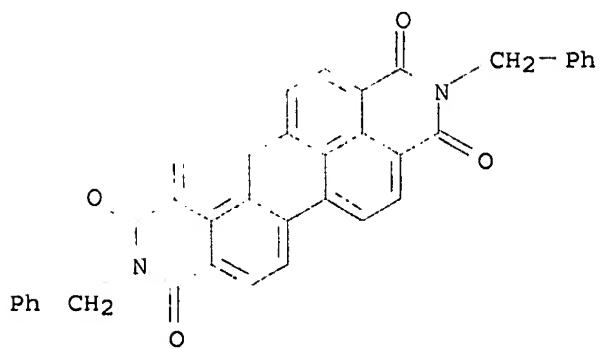
IT 5521-31-3P, N,N'-Dimethylperylene-3,4,9,10-tetracarboxylic acid diimide 52000-81-4P
 RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
 (condensation of condensed polycyclic aromatic compds. using alkali alkoxides and azabicyclo compds.)

RN 5521-31-3 CAPLUS
 CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone, 2,9-dimethyl- (CA INDEX NAME)



RN 52000-81-4 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
2,9-bis(phenylmethyl)- (9CI) (CA INDEX NAME)



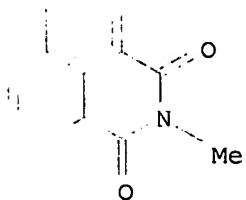
IT 2382-08-3, N-Methyl-1,8-naphthalimide 2896-24-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(condensation of condensed polycyclic aromatic compds. using alkali
alkoxides and azabicyclo compds.)

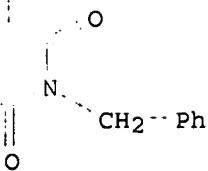
RN 2382-08-3 CAPLUS

CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-methyl- (CA INDEX NAME)

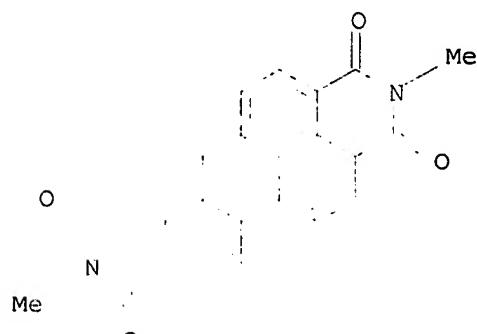


RN 2896-24-4 CAPLUS

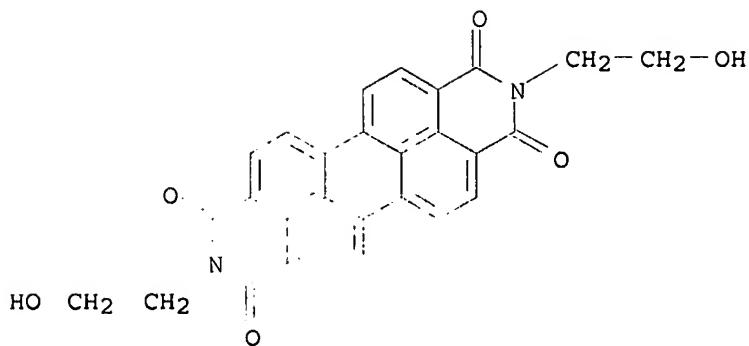
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-(phenylmethyl)- (CA INDEX NAME)



L8 ANSWER 6 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1998:673648 CAPLUS
 DOCUMENT NUMBER: 130:14915
 TITLE: Aryl coupling reactions using a novel base complex
 reagents for synthesis of polycyclic organic pigments
 AUTHOR(S): Sakamoto, Takaaki; Yonehara, Hisatomo; Pac, Chyongjin
 CORPORATE SOURCE: Japan
 SOURCE: Kawamura Rikagaku Kenkyusho Hokoku (1997) 45-51
 CODEN: KRKHFB; ISSN: 0917-7841
 PUBLISHER: Kawamura Rikagaku Kenkyusho
 DOCUMENT TYPE: Journal
 LANGUAGE: Japanese
 AB IN a preliminary previous paper, it was reported that an anal. pure
 material of perylene derivative was prepared in >95% yield upon heating a
 mixture
 of 1,8-naphthalimide, t-BuOK, 1,5-diazabicyclo[4.3.0]non-5-ene (DBN), and
 diglyme at 130°. This synthetic method has been successfully
 applied to the coupling reactions of N-substituted 1,8-naphthalimides,
 1,8-naphthalenedicarbonylbenzimidazole, acenaphtho[1,2-b]quinoxaline,
 mesobenzanthrone, and 2-aminoanthraquinone.
 IT 5521-31-3P 26872-64-0P 52000-81-4P
 58935-22-1P 73528-89-9P 78151-58-3P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (aryl coupling reactions using novel base complex reagents for
 synthesis of polycyclic organic pigments)
 RN 5521-31-3 CAPLUS
 CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
 2,9-dimethyl- (CA INDEX NAME)

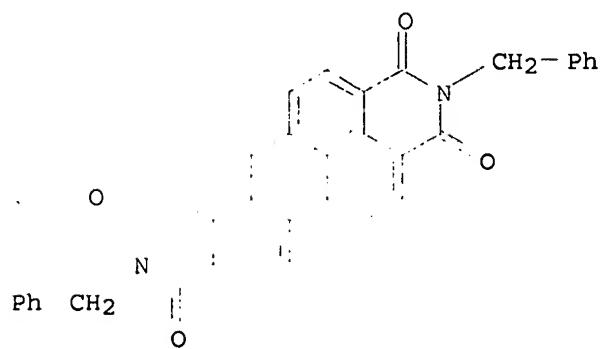


RN 26872-64-0 CAPLUS
 CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
 2,9-bis(2-hydroxyethyl)- (9CI) (CA INDEX NAME)



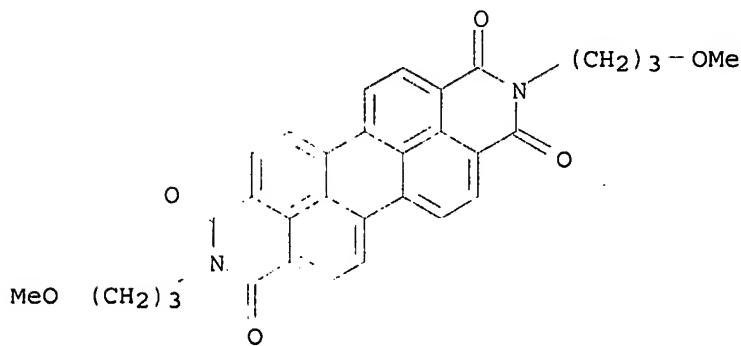
RN 52000-81-4 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
2,9-bis(phenylmethyl)- (9CI) (CA INDEX NAME)



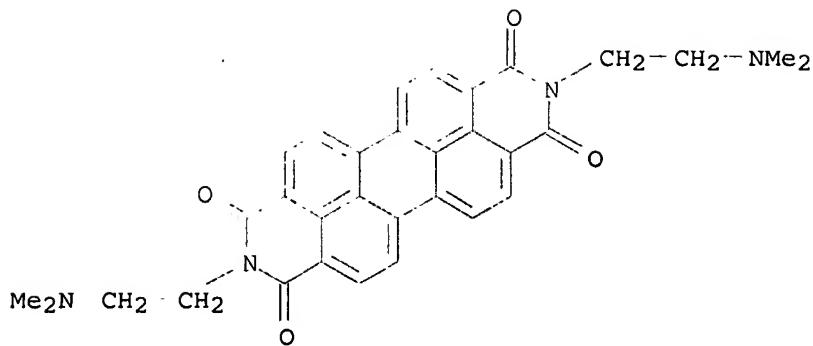
RN 58935-22-1 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
2,9-bis(3-methoxypropyl)- (9CI) (CA INDEX NAME)

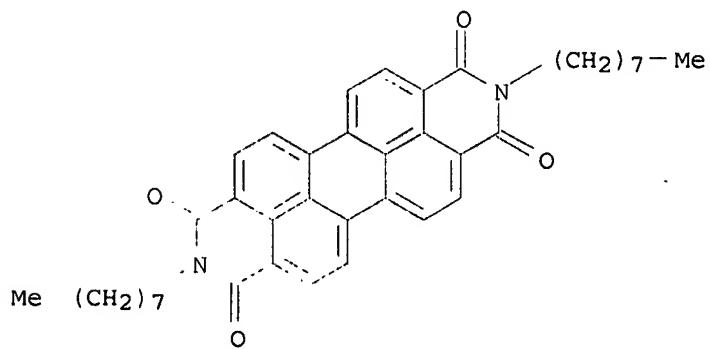


RN 73528-89-9 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
2,9-bis[2-(dimethylamino)ethyl]- (9CI) (CA INDEX NAME)



RN 78151-58-3 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
2,9-dioctyl- (CA INDEX NAME)

IT 2382-08-3 2896-24-4 5450-40-8

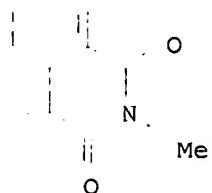
39061-46-6 60100-03-0 79070-66-9

RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant; aryl coupling reactions using novel base complex reagents
for synthesis of polycyclic organic pigments)

RN 2382-08-3 CAPLUS

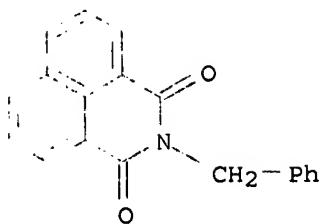
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-methyl- (CA INDEX NAME)



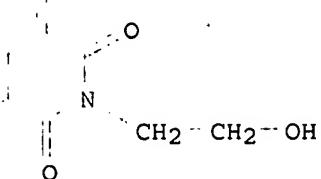
RN 2896-24-4 CAPLUS

CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-(phenylmethyl)- (CA INDEX NAME)

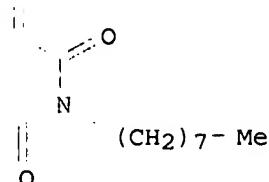
10/510, 579



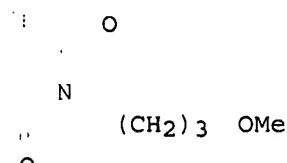
RN 5450-40-8 CAPLUS
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-(2-hydroxyethyl)- (CA INDEX NAME)



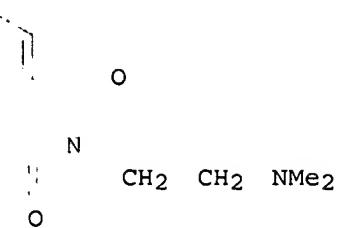
RN 39061-46-6 CAPLUS
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-octyl- (9CI) (CA INDEX NAME)



RN 60100-03-0 CAPLUS
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-(3-methoxypropyl)- (CA INDEX NAME)



RN 79070-66-9 CAPLUS
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-[2-(dimethylamino)ethyl]- (CA INDEX NAME)



L8 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2007 ACS on STN
 ACCESSION NUMBER: 1997:555404 CAPLUS
 DOCUMENT NUMBER: 127:206939
 TITLE: Direct one-step dimerization of condensed polynuclear aromatic compounds
 INVENTOR(S): Sakamoto, Takaaki; Yonehara, Yoshitomo; Boku, Shoshin
 PATENT ASSIGNEE(S): Kawamura Rikagaku Kenkyusho, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 14 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09194746	A	19970729	JP 1996-73857	19960328
PRIORITY APPLN. INFO.:			JP 1995-294142	A 19951113

OTHER SOURCE(S): CASREACT 127:206939

AB The title process for making dyes and pigments and electronic materials is carried out in a system containing alkali metal hydroxide and/or alkoxide and azabicyclo ring-containing organic base. A mixture of tert-BuOK, 1,5-diazabicyclo[4.3.0]non-5-ene, and diglyme was stirred at 170° for 1 h under N atmospheric, treated with 1,8-naphthalimide at the same temperature for

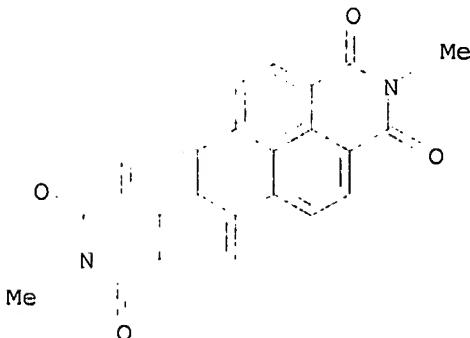
8 h to obtain perylene-3,4,9,10-tetracarboxylic diimide in 99% yield.

IT 5521-31-3P, N,N'-Dimethylperylene-3,4,9,10-tetracarboxylic diimide
 52000-81-4P

RL: IMF (Industrial manufacture); PREP (Preparation)
 (direct one-step dimerization of condensed polynuclear aromatic compds.)

RN 5521-31-3 CAPLUS

CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,
 2,9-dimethyl- (CA INDEX NAME)

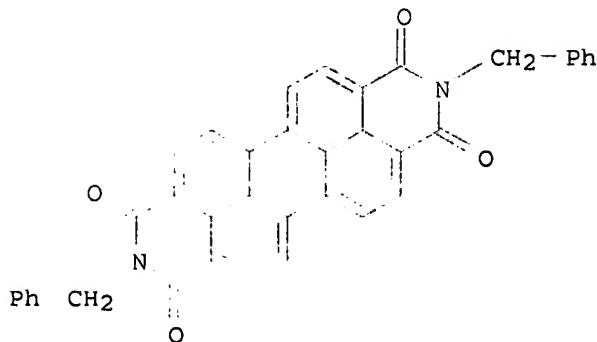


RN 52000-81-4 CAPLUS

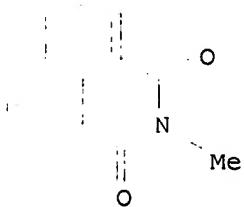
CN Anthra[2,1,9-def:6,5,10-d'e'f']diisoquinoline-1,3,8,10(2H,9H)-tetrone,

10/510,579

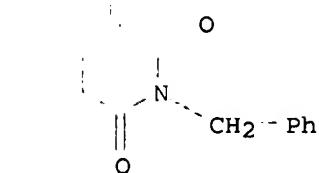
2,9-bis(phenylmethyl)- (9CI) (CA INDEX NAME)



IT 2382-08-3, N-Methyl-1,8-Naphthalimide 2896-24-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(direct one-step dimerization of condensed polynuclear aromatic compds.)
RN 2382-08-3 CAPLUS
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-methyl- (CA INDEX NAME)



RN 2896-24-4 CAPLUS
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 2-(phenylmethyl)- (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 09:37:56 ON 20 AUG 2007)

FILE 'REGISTRY' ENTERED AT 09:38:09 ON 20 AUG 2007

L1 STRUCTURE uploaded
L2 STRUCTURE uploaded
L3 50 S L1
L4 946 S L1 FULL
L5 3703 S L2 FULL

FILE 'CAPLUS' ENTERED AT 09:41:16 ON 20 AUG 2007

L6 333 S L4/PREP

10/510,579

L7 229 S L5/RCT
L8 7 S L6 AND L7

=> d 11
L1 HAS NO ANSWERS
L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

=> d 12
L2 HAS NO ANSWERS
L2 STR

O N O



Structure attributes must be viewed using STN Express query preparation.

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